



BADGER STATE Smoke Signals

Serving Amateur Radio in Wisconsin

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Published Monthly Since 1969

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KKK AND EAA

-- By Jim Romelfanger, K9ZZ --

"Is Elmer around?"

That's one of the most-often asked questions one hears when operating the Amateur Radio station at the annual Experimental Aircraft Association Convention and Fly-In at Wittman Field in Oshkosh.

Elmer is Elmer Ericksen, W9KKK, 75, of Omro, near Oshkosh. W9KKK and the EAA are almost synonymous. His call is used every year (with a few years' exceptions) at the station on the EAA grounds, and it seems as though almost everyone who calls the EAA station on 2 meters or on HF knows Elmer. If they don't, they soon do.

Elmer holds a General class Amateur Radio license, and was first licensed in 1953. He also is a member of the EAA, having joined in 1953, and is a past Vice-President of EAA Chapter 252. A licensed pilot, he enjoys flying in Cessna aircraft.

W9KKK first appeared on the Ham Radio bands from EAA/Oshkosh in 1972, and he's been at it for 12 years. With an average of 300 to 500 Amateurs signing the register at the station every year, he says he had no idea that the event would grow as it has.. and anyone who has been there knows it is BIG!

One signer of the register a few years ago was Barry Goldwater, K7UGA, who caused minor havoc when he checked into Midcars from EAA.

I asked him if anyone or any organization should be credited for their help with W9KKK/9, and he responded with The Oshkosh Amateur Radio Club and the SOLAR Association (operators of the 147.945 repeater in Oshkosh.)

His pride in the Amateur station and in the EAA Convention's success is evident, when one talks with him, either on the air or in person. His dedication to both is obvious.

I had thought Elmer was also involved in skydiving. I asked him if that were true. "No way. Why jump out of a good airplane?"

Another item about W9KKK/EAA, from Forrest, WD9IWL, is in this issue. It has further information about the station, and how you can volunteer to operate it. Volunteers are needed, and are hard to find. You'll also find the other calls used for the few years that Elmer's wasn't.)



Elmer Ericksen, W9KKK

Badger State Smoke Signals supports: The American Radio Relay League (ARRL) - The Wisconsin Nets Association (WNA) - The Wisconsin Association of Repeaters (WAR) - The Amateur Radio News Service (ARNS) - The Courage Handi-Ham System - The Morse Telegraph Club - GEARVAKf (The 'f' is silent)

Badger State Smoke Signals

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Ken Ebnetter, K9EN, Chairman
 Jim Romelfanger, K9ZZ, Editor
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Permission is granted to re-
 print items from BSSS provid-
 ing credit is given to the
 author and Badger State Smoke
 Signals.

OUR FACE IS RED

We wish to apologize to the West Allis Radio Amateurs Club for failing to give them credit for the Wisconsin QSO Party, and the fine results which we included with last months BSSS. They submitted the results to us on an IBM PC disk, which eliminated all the entry work (and errors) on this end, making it possible for us to get the results out promptly.

We thank them for their hard work, and they deserve everyone's THANKS for a job well done.

SWAPFESTS AND OTHER SOCIAL EVENTS

SWAPFEST "85" sponsored by the South Milwaukee Amateur Radio Club, Inc. will be held Saturday July 13, 1985 starting at 7:00 a.m. at the American Legion Post #434, 9327 Shepard Ave., Oak Creek, Wisconsin. Tickets \$3.00. Parking, picnic area, sandwiches, liquid refreshments available on the grounds. Overnight camping available. Talk-in on 146.94 MHz. More details including a map, may be obtained from the South Milwaukee ARC, P.O. Box 102,

South Milwaukee, WI 53172-0102. The Milwaukee Volunteer Core Group will conduct Amateur Radio Exams during the day. The W.A.P.R. (packet radio) gang will hold their initial meeting at 11:00 A.M. (A flyer, with map is enclosed for SMRAC, A BSSS Booster.)

Annual Eau Claire HAMFEST sponsored by the Eau Claire ARC will be held July 13, 1985 at the 4H barns on Fairfax St. Talk-in on 146.52. Commercial exhibitors, Computers, Satellite TV, Amateur license tests given, free coffee, free tables for Hams. Registration \$2.00 in advance or \$3.00 at the door. SASE to: Gene Lieberg, 2840 Saturn Ave., Eau Claire, WI 54701

SWAPFEST AND PUBLIC BRAT FRY: Saturday, July 13, 1985, 10:00 a.m. to 4:00 p.m. at the Wilson Town Hall, Sheboygan, WI. Sponsored by the Sheboygan County ARC. Free Tables. Admission: Adults \$3.00 (advance - \$2.50) Camping available at nearby Terry Andrea State Park. KR9S, 6400 Hawthorn Rd., Sheboygan, WI 53081 (414) 457-3366.

The Riverland ARC will hold their 2nd annual Swapfest on July 27, 1985 starting at 9:00 am in the Onalaska Community Center in Onalaska, WI. Free tables.

The Belvidere Illinois Hamfest, sponsored by the Big Thunder ARC, will be held at the Boone County Fairgrounds from 7 A.M. to 2:30 P.M. on July 28, 1985. Donation: \$2.50 in advance, \$3 at the door. Buy and swap, meet old friends and make new ones. Overnight camping; fee for electricity only. Talk-in on 147.975/375 and 52. For further information, contact Jim Grimsby, W9HRF, 210 Oak Lawn La., Poplar Grove, IL 61065. 815-765-2573.

Green Bay Mike & Key Club Swapfest. will be held on Saturday, August 17, 1985 at the Ashwaubenon Community Center on Anderson Drive located across from Baypark Square Mall. Free admission & parking. Commercial Exhibitors, food, drink. Doors open at 8 A.M. (Sellers at 7 A.M.) 8 ft. tables \$5.00 - by reservation. 4 table limit. Send s.a.s.e. with name, call, address & check to Green Bay Mike & Key Club, c/o Bill Johnson, N9CND, 2177 Orrie Lane, Green Bay, WI. 54304. (414) 494-8948

The PEORIA SUPERFEST, sponsored by the Peoria Area ARC, will be held on Sept. 21 and 22, 1985.

KMRA ANNUAL HAM, COMPUTER, AND VIDEO FEST Sunday, October 13, 1985 At the Waukesha Exposition Center, Waukesha, WI. SASE to KMRA ARC, P.O. Box 411, Waukesha, WI 53187.

LATE FALL HAMFEST: November 3, 1985 at the Lake County Fairgrounds, Grayslake, IL. SASE to CAP, 637 Emerald St., Mundelein, IL 60060.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages, and/or we can include your flyers. For information on rates and requirements for our advertising pages, and/or for including flyers, please contact K9ZZ or K9EN.

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CLUB MEETINGS:

Central Wisconsin Radio Amateurs (Stevens Point)

The next CWRA meeting will be held in the UWSP Science Bldg., on July 10, 1985 at 7:30 p.m.

Four Lakes A.R.C. (Madison WI) RED CROSS BUILDING, 4860 Sheboygan Ave., Madison, WI., first and third Tuesdays each month.

Kettle Moraine Radio Amateurs: All meetings are held on the SECOND (2nd) Friday of each month.

Manitowoc County Radio Amateurs MANCORAD meets on the third Wednesday of the month at 7:30 p.m. at Manitowoc Red Cross at 20th and Washington Streets in Manitowoc WI.

Milwaukee Radio Amateurs Club: All regular meetings of MRAC scheduled for 1985 at Wauwatosa Savings and Loan Building, 7500 West State Street, will be held on the second Thursday of the month.

1985 meetings will be Sep. 12, Oct. 10, Nov. 14.

Riverland Amateur Radio Club Regular meetings are held at 7:30 P.M., on the first Wednesday of each month in the Onalaska Community Center in Onalaska, WI.

South Milwaukee Amateur Radio Club Meetings held at Legion Post 434, Shepard Ave., Oak Creek, on first Wednesday of the month. Auctions held at March and October meetings.

West Allis Radio Amateurs Club Regular meetings are held on the second Tuesday of each month at St. Francis Savings, 9330 W. Greenfield Ave., at 8:00 P.M.

Wisconsin Amateur Packet Radio The initial meeting of W.A.P.R. will be held July 13, 1985 at the South Milwaukee Swapfest. (Details elsewhere in RSSS.)

The Wisconsin Valley Radio Association (Wausau) Holds regular monthly meetings on the first Tuesday of the month at 7:30 p.m. The location varies, but information is available on the 146.04/64 repeater in Wausau.

Yellow Thunder Amateur Radio Club: (Baraboo, WI) All regular meetings of VTARC are held in room 30 of the Baraboo Civic Center. (Except for Monday meetings, which will be in room 25.) Meetings Start at 7:30 P.M.

The meeting dates for 1985 are: July 10, Aug. 15, Sep. 16 (room 25), Oct. 15, Nov. 13, & Dec. 12.

Let us know of your club meeting dates, and we will let others know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other clubs interested in making an interclub visit.

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MISCELLANEOUS MISCELLANEOUS MISCELLANEOUS Oh what the heck -- items of interest:

Central Wisconsin Radio Amateurs Ltd. (Stevens Point) WATTS SHOO

Scott WB9JWD is sporting a new call with his Extra Class license. He is now NE9U. Scott says it only takes two seconds to send his call now by CW, where it took six seconds with his old call.

Bbob Baird, W9NN is welcomed back from his winter stay in Florida.

Herb Neitzel, W9RIL passed away May 17.

Kettle Moraine Radio Association KETTLE DRUMS Joe Lindsay, KA9RFR, finished second in the state in the Novice Roundup. He came in tenth in the nation for Technician Class licenses. Congratulations, Joe.

Madison Area Repeater Association MARA NEWSLETTER MARA Swapfest still a success!! Even tho the attendance was down

about 200 from last year, so was our revenue, but we did clear enough to keep us in the black for the rest of the year and pay our tower rent.

Many good comments were expressed by those who attended and quite a few flea market people and all the dealer exhibitors made plans to reserve their spots for next year!

Ozaukee Radio Club ORC NEWSLETTER

We are all saddened by the recent death of Ed Bach. Ed was a member of the ORC for well over 20 years, and was widely known for his activity and expertise in RTTY. He was a good friend and a good member, and we will miss him. The 1985 ORC Field Day will be dedicated to his memory, and we will take a few moments out there in the field to remember his many contributions to our club and to Ham Radio.

Riverland Amateur Radio Club (La Crosse area)

For news of the Riverland Amateur Radio Club, see their section of Smoke Signals.

Wisconsin Nets Association

For news of the WNA see the WNA section of Smoke Signals.

West Allis Radio Amateurs Club HANTRIX

Les, W9YCV finally received his confirming QSL from Wyoming to complete his WAS on the satellites. 48 states were worked on OSCAR 8 and RS satellites and 2 on OSCAR 10.

Yellow Thunder Amateur Radio Club, Inc. For news of the YTARC see the YTARC section of Smoke Signals.

Our thanks to the above mentioned clubs and their bulletins for the information presented. Badger State Smoke Signals will be pleased to exchange bulletins and information with your club. Please contact K9ZZ or K9EN.

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CENTRAL WISCONSIN RADIO AMATEURS GIVE VEC EXAMS JUNE 16

From Joe Larson, N9JW
644 Portage Street
Stevens Point WI 54481

On June 16, 1985, the Central Wisconsin Radio Amateurs (CWRA), of Stevens Point, Wisconsin, sponsored Amateur Radio exams in conjunction with their annual swapfest.

A total of fifteen people took exams. Of these, eight succeeded in upgrading or qualified for a new license. The pass rate was 53%.

Congratulations are in order for:

John DeWolf, KA9TQC, Townsend WI, upgraded to General.

Dennis Ceplina, KA9RZW, Stevens Point WI, upgraded to Technician.

Mary Schram, KA9TCE, Rhinelander WI, upgraded to Technician.

Gary Mattson, KA9NLA, Wisconsin Rapids WI, upgraded to Advanced.

Orris Bartholomew, KA9QPD, Rhinelander WI, upgraded to Technician.

Ron Howe, KA9TLY, Stevens Point WI, upgraded to General.

Harvey Nelson, KA9KUH, Stevens Point WI, upgraded to General.

Warren Holtey, Marshfield WI, passed his Novice exam.

Also of note: Harvey Nelson, KA9KUH, also passed the 20 wpm code test.

The next locally (central Wisconsin) scheduled exams are August 24 in Wisconsin Rapids. Contact Gene Santoski, K9UTQ (1220 18th Ave. So., Wisconsin Rapids WI 54494) for information and to register.

We are planning to hold exams here in Stevens Point again in late October or early November.

Our VE team was: Joe Larson, N9JW; Dick Boelter, K9IF; and Rick Miller, KC9FW. We were assisted by Scott Jasper, NE9U, and Gene Santoski, K9UTQ.

My thanks to the other members of the VE team, the helpers, and especially to the attendees for making these exams a success.

Congratulations again to those who passed. To those who did not, I wish you good luck next time!

-73, Joe Larson, N9JW

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MURPHY' LAW OF MULTIPLES:

If you perceive that there are four possible ways in which a procedure can go wrong, and circumvent these, then a fifth way will promptly develop.

MORE INFO ON EAA/W9KKK

The Oshkosh Amateur Radio Club, in conjunction with the S.O.L.A.R. Association, will host EAA Hams for the 1985 convention from July 26 thru August 2.

You may stop and rest your feet, change or charge your batteries, leave or send messages, or whatever, at the EAA Ham Shack, located at the north end of the commercial exhibit area. Look for the red and white ARRL flag.

Information throughout the convention will be available via the 147.945 (transmit -600 KHz), or by stopping at the Ham Shack hospitality site in person.

Ground communications will be on 146.400 simplex.

During the time that FCC made special event calls available, Elmer held the following calls: KB9EAA, KS9EAA, KQ9EAA, and NB9EAA. All the other years, W9KKK was used, and W9KKK will be used again this year.

If you would like more information about the Amateur Radio station at the EAA Convention and Fly-In, or if you would like to volunteer to operate the station - and it's a lot of fun - please contact me. We do need volunteers, and your help would be much appreciated.

Forest E. Schafer WD9IWL
417 Willow Street
Omro WI 54963
(414) 685-2529

THE ARRL NOVICE PRIVILEGE
EXPANSION PROPOSAL - RADICAL
CHANGE - OR COMMON SENSE?

(Editorial comment from Jim Romelfanger
K9ZZ)

Our ARRL's Executive Committee has proposed some sweeping changes in the privileges currently permitted Novice Class Amateurs.

Causing some controversy is allowing Novices voice privileges on ten meters. I'm not going to address that issue here; the most significant part of the proposal, as I see it, is granting Novices voice and digital privileges on our (at the moment) 220 - 225 MHz band.

The average age of the Radio Amateur in the United States is going up.

Youngsters are just not getting into this

hobby, and this trend must be reversed!

I'm sure one reason is the same reason we find older Hams perhaps on the air less - involvement with computers. With the current and increasing popularity of Packet Radio, the marriage of computers and Amateur Radio has been neatly accomplished!

Part of the ARRL proposal regarding the 220 MHz band includes not only voice privileges, but digital as well - and that includes Packet Radio.

If this proposal is adopted by the League's Board of Directors, presented to the FCC, and becomes law, this hobby will look much more attractive to a kid. The voice privileges won't hurt, either.

Novices would not be allowed to license repeaters on 220, but, obviously could use them.

Our bands are in a constant state of "use it or lose it." 220 is probably the most precarious band of all, with attacks on it coming from many interests and many directions. I feel confident that this proposal, if adopted by the FCC, will populate 220 fairly rapidly. Face it, gang, if something is not done to occupy that band, and if it isn't done soon, it will not be ours much longer.

Traditionalists and purists in our ranks may put up a great deal of protest about "giving so much to beginners."

If we do not, however, we stand to lose two things: (1) Young people entering the hobby, and the consequent aging of our ranks, and (2) the 220 - 225 MHz band itself.

I fully support the League in this portion of the expanded Novice privilege proposal, and I urge the League's Board of Directors to give it favorable consideration as soon as it can be done. After that, I urge the FCC to act on the matter as quickly as their legal protocol allows.

Assuming it gets to the Notice of Proposed Rule Making stage, and that the FCC invites public comments, I encourage you to file your comments in favor.

No other proposal by the ARRL has, in recent memory, offered so much potential good for Amateur Radio, and I commend the League's Executive Committee for its foresight, including my counterpart call sign holder at Headquarters, Dave Sumner, K1ZZ.

Radical change? That's subjective, but I don't think it is. Common sense? You bet it is! Let us know what you think! -k9zz.

THE TEST POINT

The following are known locations where Amateur Radio license examinations are being given in the Badger State area.

July 13, 1985	Milwaukee, WI
July 13, 1985	Eau Claire, WI
August 10, 1985	Saukville, WI
August 10, 1985	Duluth, MN
August 14, 1985	Onalaska, WI
August 17, 1985	Milwaukee, WI
August 17, 1985	Minneapolis, MN
August 24, 1985	Wis. Rapids, WI
September 14, 1984	Milwaukee, WI
September 14, 1985	Merrifield, MN
September 28, 1985	Mt. Horeb, WI
October 12, 1985	Milwaukee, WI
October 19, 1985	Minneapolis, MN
November 9, 1985	Milwaukee, WI
December 14, 1985	Milwaukee, WI

General rules for all examinations:

All examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs may permit walkins. Check with sponsor to find out they allow walkins.)

To register for these examinations, you must first secure a copy of the current FCC Form 610 (the one dated June 1984) and fill it out completely (AND CORRECTLY). Get your form from the FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 22¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group. Remember--you must file at least 30 days in advance unless otherwise indicated.

ARRL/VEC examinations require a check for \$4.00 payable to ARRL/VEC.

Additional information is given below.

August 10, 1985 Duluth, MN

Arrowhead Radio Amateur Club

Contact: Eddy Lonnstrom, N8DHG
2026 Baxter Ave.
Superior, WI 54880

August 17, 1985 Minneapolis, MN
October 19, 1985 Minneapolis, MN

Minneapolis Radio Club

Contact: Tony Becker, AEØM
3638 Pleasant Ave., S.
Minneapolis, MN 55409

September 14, 1985 Merrifield, MN

Paul Bunyan Wireless Assn.

Contact: Dave Neiman
Box 132
Merrifield, MN 56465

July 13, 1985 Eau Claire, WI

W5YI-VEC -- Eau Claire Radio Club

Amateur Radio license examinations will be given during the Eau Claire Radio Club's second annual hamfest on Saturday, July 13, 1985.

Contact: Carl Searing W9NW
1129 McKinley Road
Eau Claire WI 54703.

Walkins will be accepted until the supply of examinations is exhausted; therefore, advance registration is recommended.

September 28, 1985 Mt. Horeb, WI

ARRL/VEC -- The Four Lakes Amateur Radio Club

Talk in frequency is on 146.16/76 repeat

Contact: Gary Lincoln
6015 Winnequah Rd.
Monona, WI 53716.

The September exam will take place in Mt. Horeb (West of Madison) during the County Hunters Mini Convention.

August (exact date(s) unknown)

The Watertown ARC and Tri-County ARC are sponsoring these test sessions. Walkins will be accepted.

John Block Jr. N9EAJ
1305 S. 3rd Street
Watertown WI 53094.

The address of the testing site is:

University of Wisconsin - Whitewater
800 West Main Street - Hwy 12
Anderson Library - Room 1120
Whitewater WI

August 14, 1985 at 7:30 p.m. at the Onalaska Community Center. Sponsored by the Riverland ARC.

Saturday, August 10, 1985 at 9:00 a.m.

This test session will be at the Saukville Village Hall, just off Highway 32. This is about ten miles north on Highway 32 from Mequon Road. This test session is sponsored by the OZAUKEE RADIO CLUB.

Indicate desired date and file on a Postal System post card (14¢) mailed to:

The Milwaukee Radio Amateurs' Club, Inc
N50 W16328 Pin Oak Court
Menomonee Falls, WI 53012

PLEASE PRINT listing the grade of license you are applying for, your name, address, including Zip Code and your telephone number.

On your test date, please appear at the appointed hour, or not more than 1/2 hour later, so that we can process your exam that day. Bring a good photo copy of your license, a pen and four dollars for the exam fee. We supply the proper 610 form, and assist you in properly filling it out.

Charles Kaetel, W9SNK, and MRAC invite those Amateurs interested in serving as Volunteer Examiners to contact him at the above address.

The Milwaukee Volunteer Core Group (DeVry VEC) will be giving Amateur Radio exams in the Service Occupation Building, rooms SD208 and SD209 at the Waukesha County Technical Institute on the following dates (all 1985):

July 13 (At "Swapfest 85" - South Milwaukee Amateur Radio Club, Inc. See Swapfest column for location)

August 17
September 14
October 12
November 9
December 14

The exams will begin at 9:00 a.m. Walkins are welcome.

If you are interested, please send a POST CARD with your NAME, ADDRESS, TELEPHONE NUMBER, and the DATE on which you wish to be tested, and the GRADE of license you wish to be examined for. Send the card to:

Syl Janczak WD9JKZ
3127A West Madison
Milwaukee WI 53215

Exams for shutins are given by appointment only.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examineer Amateur Radio license examination schedules.

Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN or K9ZZ at the address shown on page 2.

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-73, Joe Larson, N9JW

PACKET RADIO

WISCONSIN AMATEUR PACKET RADIO TO HOLD INITIAL MEETING

W.A.P.R., much like packet radio in the state of Wisconsin, has been in an infancy stage. However, an explosion is taking place. Activity is definitely on the increase. This brings about a pressing need to sit down and plan the direction of packet radio in the stat. We would like to have a meeting of dedicated, interested packet radio operators to decide the future of W.A.P.R. and packet radio in Wisconsin.

The initial meeting of W.A.P.R. will be held at the South Milwaukee Hamfest on July 13, 1985. The meeting will be held inside the V.F.W. building in the testing room and will start at 11:00 A.M. We will be monitoring 145.01 Mhz. if anyone needs assistance. Hope everyone can make it. Looking forward to an eyeball with the group.

Above from: *The Wisconsin Packeteer* and WA4COY & WD9ESH, Ken & Dave

ANOTHER ASSAULT ON 220 GETS UNDERWAY (From the ARRL Letter, June 20, 1985)

LAQAD Radio and Microwave Communications Consultants have filed a detailed petition with the FCC requesting the reallocation of 216 to 220 MHz to narrowband systems in the Private Land Mobile Radio Services (PLMRS) on a co-equal shared basis with the Inland Waterways Communications Service (IWCS).

(LAQAD was the Norwegian call sign of the president of the firm.)

In addition to the proposal for 216-220, the Petition asks the Commis-

sion to move one of the present occupants of the 216-220 MHz band, now operating under a developmental license, a digital telemetry system known as "OPSEIS", into the segment 220-222 MHz.

LAQAD claims that this could be done on a shared basis, since OPSEIS is used by geophysical exploration parties in searching for hydrocarbon deposits beneath the Earth's surface, often in remote areas of the country.

OPSEIS is a 350 KHz wide telemetry system - LAQAD proposes to move the system to 220-222 MHz and require the users to give the ARRL 60 days notice before using the system, and to coordinate the geographical location of its use with the ARRL.

LAQAD states that suitable Land Mobile radio voice channels are increasingly difficult to obtain, and acceptable channels for telemetry and low speed data communications are virtually impossible to license in heavily populated areas.

The company's plan for 216-220 MHz includes a detailed listing of proposed frequency assignments with a mixture of 2.5, 5 and 25 KHz wide channels (the 25 KHz channels are only for Watercom in the IWCS).

ARRL filed comments in this proceeding, stating that it would seem that the OPSEIS system would be better suited to sharing with a service that uses fixed-frequency assignments.

The League suggested that serious consideration be given to the sharing of two or more high band (174-216 MHz) television channels with this system.

"The locations of television transmitters are fixed and widely known, and the distances to protected contours are readily calculable. As no two adjacent channels are in use in the same service area, the 350-KHz bandwidth, low-power requirements of OPSEIS would be readily adaptable to operation on an unused television channel without affecting other spectrum occupants."

The ARRL stated that the League supports the use of spectrum efficient technology in the Land Mobile Service to permit that Service to make more effective use of its extensive VHF and UHF allocations.

The comment deadline on this petition, designated RM-4983, was June 13.

(Editor's note: Please see the editorial regarding 220-225 MHz on page five of this issue.)

YELLOW THUNDER AMATEUR RADIO CLUB

The June 11, 1985 meeting of the Yellow Thunder Amateur Radio Club, Inc. was called to order in room 30 of the Baraboo Civic Center at 7:30 P.M. by President Art Kleefisch, W9WSS.

The following were present.

Members:

Art Kleefisch, W9WSS	Baraboo
Duane Grotophorst, KA9HKL	Sauk City
Ken Ebnetter, K9EN	Portage
Jim Decker, WB9UQT	Baraboo
Bill Klinkner	Sauk City
Harry Mayland, K9FFT	Baraboo
Harry Westlund, K9EHJ	Baraboo
Maurey Gurgel, KA9TBU	Reedsburg
Ken Johnson, K9DZG	Mazomanie

Guests:

Jim Romelfanger, K9ZZ	Baraboo
Tom Luck, WB9BPS	Baraboo

The minutes of the previous meeting were approved as printed in BSSS. The treasurers report was given by Jim Decker, WB9UQT. The operating account showed a balance of \$204.42 and the equipment account a balance of \$193.37 for a total of \$393.79.

Communications and announcements:

WB9UQT showed off his new Heath Packet Radio TNC. We expect to have an operating demonstration at a future meeting.

K9EN read a few items from the ARRL Letter, Westlink Report and the DX Bulletin.

Maurey Gurgel said that he is looking for a Drake 2NT.

No old Business:

No new Business:

Buck Night: Since there was a winner last month, this months drawing was for \$1.00. As Art did not bring his calculator, we had to resort to the old binary method (flipping coins) to determine the winner, George Halper, W9SUF, who was not present to claim his winnings. Next month the prize will be \$2.00.

Meeting was adjourned by Art, W9WSS.

Following the meeting plans were discussed for the club participation on Field Day at Owen Park. It is planned to have 2 or 3 stations operating and we expect to have a packet radio station operating.

Respectfully submitted:
Ken Ebnetter, K9EN, Secretary.

YTARC BIRTHDAY:

Charles Scholten, W9BZU
Manitowoc, WI July 19.

SENTENCE SERMON:

He who cannot forgive others destroys the bridge over which he himself must pass.

-- George Herbert.

YTARC FIELD DAY

The following members/guests operated/visited the YTARC Field Day operation at Owen Park in Columbia County:

K9EN, WB9UQT, W9WSS, K9ZZ, K9DZG, W9XI, K9DCJ, KA9HKL, KA9QIC, and Bill Klinkner. That is all I have on my notes, sorry if I missed anyone.

The club operated 3 stations, HF phone, HF cw, and VHF phone. We also had a packet radio station operating during the entire operating time.

Our special thanks to Fred Becker, W9KKM for bringing his generator up to power the equipment. It run smoothly and economically during the entire period.

Packet radio stations were supplied by Jim Decker, WB9UQT and Ken Ebnetter, K9EN. Every one enjoyed the demonstrations of this new Amateur Radio mode of communications. The stations made a total of 4 packet QSOs with fixed stations. We did not hear any other packet stations operating Field Day.

A great time was enjoyed by all attending and we are looking forward to next year.

--Ken Ebnetter, K9EN

COAX CENTENNIAL

From the GRAC Newsletter

Werner Seimens, the German inventor and industrialist, received patent number 28978 in Berlin dated 27 March 1884 for an induction free cable, consisting of "A conductor surrounded by a metallic enclosure serving as the return path". The first cable of this type was installed between Berlin and Leipzig in 1936 to carry TV signals from the Olympic Games in Berlin.

RIVERLAND AMATEUR RADIO CLUB

On June 5, 1985 at 7:35 P.M. the regular monthly meeting of the Riverland Amateur Radio Club was called to order by President, Craig Goldbeck. Minutes of the May meeting were approved as read from the Badger State Smoke Signals. Treasurers report was approved.

Report from the Repeater Committee: Nothing to report.

Report from the Swapfest Committee: Just a reminder of the Date; July 27 at the Onalaska Community Center. Also it was suggested that we do various types of advertising for the Swapfest.

VE Program: Rich has tentatively set August 14th at 7:30 P.M. at the Onalaska Community Center as the next test session. Anyone interested, please contact Rich as soon as possible.

Old Business: A motion was made and seconded that the Valley View Mall site be made the location for Field Day. After considerable discussion, the motion was passed.

Bill, K9FYZ thanked everyone for the flowers that were sent to him in the hospital. We are all happy to have him back in good health with us.

New Business: A motion was made and seconded that if any local Amateur Radio Operators are hospitalized a card and flowers would be sent to them, using money from the treasury. The motion was passed.

WA9BIK is looking for a handi-talkie with a touch tone pad -- if anyone has one for sale contact WA9BIK, or Greg Miller for his address. Also anyone looking for some 75 ohm hard line contact Gary Webb.

Members present were 25. Program scheduled was a show of various projects of club members.

Meeting was adjourned at 8:00 P.M.

Respectfully submitted,
Greg A. Miller, Sec.-Treas.
Riverland ARC.

Members Present:

Greg A. Miller
John Markos
Craig Goldbeck
Gary Mattie
Van Elston
Bill Pike
Ray Buhr
John Carroll

KA9FOZ
KA9LOF
N9ETD
KA9RQY
WA9FID
K9FYZ
AA9M
W9MMP

Feroz Ghouse	4S7FG
Bob Pluntz	WD9FKV
John Young	W9KAZ
Jim Broker	N9DBK
Bob Collieran	W9JLH
Steve Mrachek	N9CEY
Ron Reed	KD9OY
Knute Knutson	W9SFL
Larry Berger	WA9NWA
Rick Williams	KV9U
Phil Long	KA9RLI
Art Osborn	W0JDC
Duane Fruechte	W9HWQ
Dick Low	K0JYB
Dallas Miller	K9LEC
L. F. "Nook" Bentzen	K9EGD
Gary L. Webb	N9DHQ
Ron Strasser (new member)	

Guests Present:

Paul Kuhlen	K9EGY
Bob Chitel	WA9LOX

CRABAPPLE COMPUTER INTRODUCED

(From GEARVAKf Bulletin, Spring, 1985)

Edward Tamethud, president of Gearloose Electronics, announced today the debut of the company's new Crabapple computer.

Due to the overwhelming response of the public to new "user friendly" languages like BASIC, the Crabapple will support its own language designed for a new market segment.

"BASIC answered the needs of people who are not overly technical, but what about those who are just plain incompetent?"

Mr. Tamethud then introduced a new language called PUG (Particularly Unintelligible Garbage) and pointed out that anybody could use it, although he declined to say what for.

When programming in PUG, the user employs the remote control unit for any TV, pushing the buttons at random. A program will result.

Said to offer no greater challenge than drinking beer and watching football simultaneously, the new language is sure to be a hit with people everywhere, Tamethud claims.

Another feature of the new Crabapple is a three-bit WOM (Write Only Memory), a variant of the LIST (Last-In, Still There) memory used on other products in the company lineup.

-WBIG

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WNN	YES	3723	0000Z	1800	KA9DBP
WSSN	YES	3645	0030Z	1830	N9BDL
WIN-E	YES	3662	0100Z	1900	WB9ICH
WIN-L	YES	3662	0400	2200	KC9CJ
NMTN	YES	34/94	0030Z	1830	W9JSF
WCWTN	YES	31/91	0030Z	1830	N9DHT
GR.BAY	NO	72/12	0245Z	2045	WB9NRK
			THU	WED	
WRN	NO	3625	0000Z	1800	K9UTQ
	RTTY	Mon. Wed. Fri.	UTC		
		Sun. Tue. Thu.	Local time		

Exams at Wisconsin Rapids August 24th, contact K9UTQ.

KB9DC confirmed 306th country.

KY9P awarded both mixed mode and CW DXCCs.

Sorry to report Silent Keys W9RIL and N9CUS.

BPL to KA9CPA.

At the Wisconsin Rapids QCWA meeting, shirt sleeved auctioneer Travis, W9VQD, began to auction an unusually large stuffed paper bag. Quickly, W9OUT shouted "I'll bid five dollars, sight unseen, for that."

Surprised, Travis accepted, kept the bag closed, and diligently worked prices up to a final bid.

The curious QCWA gang demanded to see the contents of the mystery bag. Travis, also inquisitive, reached into the bag, pulled out a sleeve, then the rest of a familiar looking garment.

With a bit of trickery from his friends, W9VQD had just auctioned off his own suit coat for eight dollars.

9RN CYCLE 4 RPT MAY 1985 QNI 374 QTC 492 QTR 1002 MINS IN 62 SESSIONS WISCONSIN PARTICIPATION NINETY PERCENT STNS W9CBE KC9CJ W9DND K9GDF WB9ICH KA9DBP K9UTQ W9YCV AND W9YT 73 - PEGGY W9JUJ 9RN NM.

D9RN RPT FOR MAY 1985 354 MSGS IN 1165 MINS WISCONSIN 88 PERCENT STNS N9BGE W9CBE W9IEM W9ODV WA9WYS WB9JBF KA9DBP WD9FRI WD9PKL 73 - DALE WA4JTE NM.

CAND RPT FOR MAY 1985 X 794 MSGS IN 31 SESSIONS X D9RN 100 PERCENT WISCONSIN STNS W9CBE N9BGE W9IEM W9ODV WB9ICH WD9FRI X 73 - JERRY W5KLV NM.

SECTION MANAGER NOTES

May 1985

From Section Manager Rich Regent, K9GDF
5003 South 26th Street
Milwaukee WI 53221

Congratulations to Old Timers W9NN, with 65 years, and W9DDV, with 60 years in Amateur Radio!

Green Bay Mike & Key Club Swapfest August 17th, Ashwaubenon Community Center.

To start a club, find a club near you, or, to get applications for the ARRL Club Challenge dues rebates, get in touch with our Affiliated Club Coordinator, KA9F0Z.

Check with me if you would like to be an Assistant Technical Coordinator.

W9YCV tracked 6 satellites for four years, mostly on CW, to receive No. 134 Worked All States, with Wyoming his last state. Les also heard the OSCAR 10 Engineering Achievement Test.

Flambeau ARC new officers: President - KA9NDT. Vice-President - KC9QD. Secretary - KW9H. Activities Director - AG9G.

Racine Megacycle Club helped Red Cross with Lighthouse Run.

Happy birthday W9FZC on August 14th and happy 80th to K9AA on August 18th.

W9NGT presents severe weather training programs at clubs.

WB9CQF upgrades to Extra while N9BDL passes Advanced (Lee's new computer must have helped - K9ZZ).

PUBLIC INFO STUFF

Public Information Officer
Jim Romelfanger K9ZZ
301 1/2 7th Street
Baraboo WI 53913-2234

Tony England, W00RE, is about to be the second Radio Amateur to operate from low earth orbit.

England will fly aboard Shuttle flight 51-F, now set for launch on July 12. He is scheduled to operate using the same Motorola two-meter FM handheld radio as was used by Owen Garriott, W5LFL, on his history-making flight and Ham operation in late 1983.

The primary downlink frequency is 145.55 MHz. The first transmissions will be slow-scan television, but, after the third day of the mission, voice will probably be the primary mode.

Astronaut England wants to work Amateur Stations which are paired with youth groups, and those clubs which meet that requirement and other possible guidelines may get a list of special unpublished uplink frequencies. Application forms for this purpose for qualified groups by writing to ARRL Headquarters, 225 Main Street, Newington CT 06111, Attention: Ham-in-Space Mission.

Now is the time for all good PIAs - and anyone else interested in good PR for our hobby - to begin scratching out some information for your local media.

If your local club fills the bill regarding youth groups, this PR opportunity is very important, but the good PR chance is still there for everyone.

I realize that there are a couple of areas in our state in which some folk in our hobby feel that PR efforts will more or less take care of themselves, but Wisconsin is a big state, and those areas are miniscule within the state. The PIAs job is important, indeed, and no PR efforts are ever wasted!

We have only about 8 PIAs, but they care enough about Amateur Radio and its welfare in the eyes of an often non-understanding public that they work to alleviate misunderstanding and create good will in its place.

Regardless of whether or not you are experienced at writing, a reasonably short - but informative - news release to all your area (not just local) media regarding Tony England's flight will more likely than not prove productive.

As an example, I wrote a one-pager about Owen Garriott's flight in 1983. The story appeared in most of our area papers (two dailies, a lot of weeklies), was read on many area radio stations, resulted in a telephone call and an interview from and in the Milwaukee Sentinel, and two on the air interviews on WISC-TV, channel 3, in Madison, with Paul Goemans, WA9PWP.

The story also was sent statewide on the Associated Press newswire. Not bad for a modest investment of a couple hours' time and five bucks in paper, envelopes and postage, eh what?

One possible headline for your news release: "NASA TO SEND ENGLAND INTO ORBIT". (Corny, but attention getting, right?)

Remember the who, what, why, when and where, and try to give the essential information in the first paragraph. From there on, you can elaborate. Highlight Tony's concern with and regard for youth groups. Emphasize that this is only the second time an Amateur Radio Operator will have used Amateur Radio from space, and that it is possible with NASA's cooperation.

Lest the public get the idea that space has become a recreational jaunt for astronauts, be sure to point out that he will operate his station only during his non-work time.

You might also point out that Tony MAY be heard during near-overhead passes on some (but not all) scanners, if they are programmed to 145.55 MHz during the flight. If Tony is sending SSTV, most people wouldn't recognize it, so point that out, too. After day three, hearing him on voice is more likely.

Setting up contacts in advance isn't possible due to the heavy work schedule, but the NASA Amateur Radio clubs will be helping distribute Tony's schedule about one orbit (about 90 minutes) in advance.

I thought about writing a release and running it here for you use, but if that's done, they all look the same, which isn't desirable in my point of view. I think this is done best if you grind out something yourself, in whatever form you feel is best.

Remember to double space your news releases and leave reasonable margins - these allow room for editing.

Good luck with your PR efforts. If you have something published that you have written, or if you see any PR of any kind for Amateur Radio - regarding the shuttle flight or anything else - please send me a copy.

- 73, Jim, K9ZZ

From the ARRL Letter, June 20, 1985

Since several crew members are interested in operating the Amateur station aboard the space shuttle Challenger during flight 51-F, it now seems possible that some spare time for contacts with the general Ham population may develop.

These contacts would be in addition to the primary plans for contacts with Ham club/youth group pairings.

Individual Amateurs will be eligible for QSL cards ONLY if contact is attempted on the following uplink frequencies:

144.970	145.030
145.630	145.690

Downlink remains 145.550 MHz.

As time permits, Astronaut England, W0DRE, will announce that he is turning on a videotape machine to record SSTV signals directed up to Challenger on 144.910 MHz ONLY. This will not be an opportunity to exchange with the shuttle station, and no assessment of signals received will be made until after the mission, when the tape will be replayed and evaluated.

More than one hundred Ham club/youth group pairings are expected to be arranged by flight time. These qualified groups will get a non-published list of uplink frequencies, where Astronaut England plans to do most of his spare time operating

It is his goal to encourage young people's interest in technology through Amateur Radio. Application forms to take part are available from ARRL HQ in Newington.

By listening to shuttle communications retransmitted by one of the Ham clubs, you will be able to tell when the shuttle Amateur station is operating:

Automatic (unattended downlink SSTV)

Scheduled TV 2-way (NASA-arranged ATV demonstrations)

Youth group voice 2-way (published downlink, unpublished uplink)

Open voice 2-way (published uplink)

Open TV uplink (automated reception on 144.910 MHz)

Stay tuned for further developments!

FINAGLE'S THIRD LAW

In any collection of data, the figure most obviously correct, beyond all need of checking is the mistake.

From GEARVAKf Bulletin

W5VIPES RETORT
GEARTOR EXPERIMENT SUCCESSFUL

GEARTOR, the new error-free communications system, has been successfully tested at GEARVAKf Headquarters near Enon, Ohio. [Actually the experiment were conducted completely within the Village of Enon, but kept secret due to fear of alarming the village's former Mayor, Hon. Frank Enon, Esq., who is congenitally fearful of anything new, strange, or different--Ed.] Unlike expensive computer-driven systems, GEARTOR needs no computers, transmitters, receivers, antennas, or software. There are no dangerous electrical hook-ups or expensive batteries. Absolutely no dangerous radiation is involved. The W5VIPES RETORT has learned that the GEARTOR test was carried out between the bathroom and the empty room where Christmas decorations are stored. The bathroom door was closed to make the experiment more meaningful. The text of the experiment is as follows:

STATION 1 (transmitting into cupped hands): "Do you hear me? Gleep, Gleep, Gleep. . ."

STATION 2 (receiving, hand cupped to ear): "Yes. Cheep, Cheep. . ."

STATION 1: "Good, it works. Signing out. Gleep, Gleep, Gleep. . ."

STATION 2: "Clear here. Cheep, Cheep. . ."

At this point, a loud flush was heard which obliterated any further transmissions, but the experiment was termed a success.

--N8JR

YOUR EDITOR SPEAKETH

From jim, k9zz

A few items here and there...

The Wisconsin Nets Association (WNA) is one of the clubs/groups taking part in Badger State, and, as such, has space allocated to them each month in these hallowed pages. Some months bring a fair amount of news from the various Net Managers and Section level ARRL appointees; other months bring almost nothing, except for our Honorable Section Manager, K9GDF.

The WNA had a QSO Party a short time ago, and I discovered it accidentally, in QST. Please, WNA gang.. We are doing our part on this end - please make an effort to get your items to us per the schedule you all have (or

should have.) If you do not have a copy of our publication schedule for your net or appointment, let myself or K9EN know. We want to serve you, but we can't if you don't do your part.

Al Hovey, WA9BZW, Shawano, works with not one, not two, but three youth groups. He therefore qualifies to take a shot at working Tony England aboard the shuttle which is set for launch on July 12. Al has the unpublished uplink frequencies, and, knowing him, he will do his best to QSO the shuttle. Good luck, Al!

If there are any other Amateurs in the Badger State who have qualified likewise, we'd like to know. We'd be even happier if you work the shuttle! If you accomplish the feat, please be sure you tell us. Send details to me at my address on page 2.

Badger State Smoke Signals goes together in some interesting ways. Ken, K9EN, sets most of the text for each issue, using WordStar, along with two computers. His first machine was (and is) a Digital Group with eight inch drives; the second is a Televideo. The dot-matrix print you see on most pages is from an Epson printer, and is usually set at 12 pitch (12 letters per inch.)

On some occasions, when we have a BIG bunch of text, Ken has to go to compressed print, and that's 16.7 letters per inch. It's harder to read, but, with some big last-minute additions to some issues, it's about all we can do, if we are to get the news to you.

The editorial material which is addressed to me is typed on a Radio Shack Model 4 with two 5 1/4" drives. The word processor most often used is SCRIPSIT, and the text is saved to disk in ASCII format. Ken can read my disks with his Televideo system, and some file transfers are made from my system to his by personal delivery of the disk(s).

The cover on this (and some prior) issues, along with the text on page 5, were set with SuperSCRIPSIT, and are set in true proportional type. My printer is a Radio Shack DWP-210 (daisy wheel.) It tears down the page at 18 characters per second.

On some occasions, when I receive last-minute information which must go in the next issue, and the deadline is at hand, I send Ken the disk files with a modem at 300 baud. The modem in use here is a Radio Shack Modem 1B.. a cheapie, but it works very well. (It's no good for two-meter Packet, though. --wrong speed) We have made several

file transfers this way, over an 18 mile long distance connection, and have not yet had a single hit in the copy.

If it should happen that you have something for Badger State, and you also have a computer and modem, I'd be glad to take your files that way; Ken can also do it. Doing it that way eliminates the need to retype articles.. and some we get are l-o-n-g! It also usually (but not always) means that any typos are yours, not ours.

My requirements for modem file transfers are: 300 baud, 7 bit word, one stop pulse, and no parity. (These can be chaged to suit your system, if necessary.) This modem is dumb.. a person has to answer first.

The paper is printed using a stencil process. The stencils used are AB Dick 2060.. a special stencil made for use with low impact printers. They work just fine.

There are a lot of events in and around Wisconsin which we are sure you would like to see publicized. Swap-fests, hamfests, VEC exam sessions, club dinners, banquets and other special club events, special events stations, auctions, club anniversary celebrations, and who knows what else. Individual Amateurs' special achievements and newsworthy, too. We'd also like to know about recent Silent Keys, too. DXCC, WAS, WAC, WAZ, etc. are all information we want to publish. Your imagination (and mine) are the only limiting factors. Tell us!

Finally, if your club or group took to the wilds on Field Day, we would very much like to have a few pictures of your operation for possible publication in Badger State. Black and white 5 x 7s or larger are preferred, but we can use almost anything! Please send photos to me at my address on page 2.

73, jim, k9zz

At press time, it looks as though the operating schedule will be expanded. See article elsewhere in this issue.

--k9zz

SCOTT'S FIRST LAW

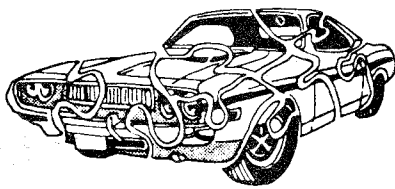
No matter what goes wrong, it will probaby look right.

SCOTT'S SECOND LAW

When an error has been detected and corrected, it will be found to have been correct in the first place.

73 de BSSS staff

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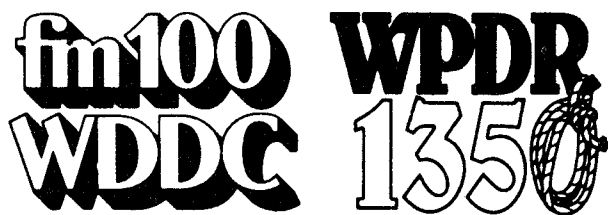
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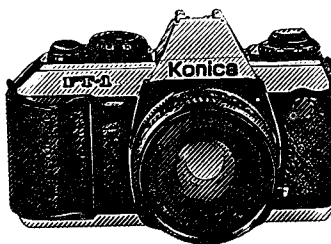
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BADGER STATE SMOKE SIGNALS

To all Wisconsin Amateur Radio Clubs:

If you are not a regular recipient of Badger State Smoke Signals, this sample copy is to introduce our publication to you, and invite you to join our regular readers. Smoke Signals has been published monthly for over 15 years. Originally published as the club paper for the Yellow Thunder Amateur Radio Club, it has been, for the past three years, a state-wide publication.

Badger State Smoke Signals will carry current Amateur Radio news, news about YELLOW THUNDER ARC, RIVERLAND RADIO CLUB, WNA, ARRL and other clubs and groups in Wisconsin as well.

We would like to offer our services to the members of your club. If your club has a newsletter or bulletin, we would like to exchange newsletters with you. We will include information from your club in our newsletter and you may feel free to use information from ours. We are especially interested in information about your class schedules and VE FCC license examination schedules.

If your club does not publish a newsletter, Badger State Smoke Signals would be happy to serve your members as the official journal for your club.

In addition to our regular individual subscription rates (on the other side of this sheet) we offer a bulk subscription rate to clubs having 20 or more subscriptions per year at a rate of \$4.50 each. The club can pass the savings on to its members or keep it for the club treasury.

Clubs wishing to participate in Badger State Smoke Signals with a page devoted to their club can receive an even lower rate. Mailings must be made to the entire club membership (note 1.) and your club would receive a 15 percent additional complimentary mailings. (There are presently over 100 complimentary and exchange addresses on the mailing list in addition to the present subscribers.)

CLUB RATES:	Less than 50 members	\$4.20 per year
	Over 50 members	\$3.60 per year

Your club would have space reserved for publication each month, and we ask that you prepare and submit your material. (Hand written, typewritten or via modem.)

Advertising space is available in Smoke Signals and we do offer a small commission to clubs selling advertising space.

For participating clubs or advertisers, we will include Hamfest/Swapfest flyers at no added cost. There is a charge of .05 for each flyer for non-participants. (Wisconsin portion of mailing only) There is no charge for listing in the monthly Swapfest column.

If your club is interested in participating in Badger State Smoke Signals, please contact Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, Wisconsin 53901. Telephone (608) 742-3560.

note 1. We recognize that there may be members already on our mailing, but this duplication is part of what allows us to offer our low rates.

BADGER STATE SMOKE SIGNALS

SUBSCRIPTION INFORMATION

Dear Fellow Radio Amateur:

If you are not a regular recipient of Badger State Smoke Signals, this sample copy is to introduce our publication to you, and invite you to join our regular readers. Smoke Signals has been published monthly for over 15 years. Originally published as the club paper for the Yellow Thunder Amateur Radio Club, it has been, for the past two years, a state-wide publication.

Badger State Smoke Signals will carry current Amateur Radio news, news about YELLOW THUNDER ARC, RIVERLAND RADIO CLUB, WNA, ARRL and other clubs and groups in Wisconsin as well. You will be kept apprised of what is happening in our hobby - locally, regionally, nationally and around the world. Among the many features will be Sentence Sermons, member birthdays, swapfest calendar, ARRL section news, humor and excellent feature articles by well-known Amateurs in Wisconsin and elsewhere. Reports will be included from ARRL Bulletins, ARRL Newsletters, and Westlink Reports, along with items of interest from exchange newsletters and the ARNS.

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In addition to the above rates, a special reduced rate is available to clubs having 20 or more subscriptions per year at a rate of \$4.50 each.

Clubs wishing to participate in Badger State Smoke Signals with a column devoted to their club can receive a lower rate. Mailings must be made to the entire club membership and your club would receive a 15 percent additional complimentary mailings. (There are presently over 100 complimentary and exchange addresses on the mailing list in addition to the present subscribers.)

CLUB RATES: Less than 50 members \$4.20 per year
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Badger State Smoke Signals would be happy to serve your members as the official journal for your club. For information and requirements, please contact Ken Ebner, K9EN, 822 Wauona Trail., Portage, Wisconsin 53901 -- (608) 742-3560

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